routing both the chilled fluid and the heated fluid to the heat load; and

controlling amounts of chilled fluid and amounts of heated fluid being delivered to the heat load.

32. (New) A method according to Claim 31 wherein heating a portion of the fluid to a temperature comprises providing a hot reservoir of fluid.

33. (New) A method according to Claim 31 wherein heating a portion of the fluid to a temperature comprises routing a portion of the chilled fluid through a heat exchanger.

34. (New) A method according to Claim 31 wherein heating a portion of the fluid to a temperature comprises routing a portion of the chilled fluid through a heater.

35 (New) A method according to Claim 31 wherein providing an amount of fluid that is chilled comprises chilling an amount of fluid using a compressed refrigerant.

36. (New) A method according to Claim 31 further comprising:

measuring a temperature of the chilled fluid using a temperature sensor;

sending the measured temperature to a temperature controller; and

controlling an amount of chilling applied to the fluid.

37. (New) A method according to Claim 31 further comprising:

measuring a temperature of the heated fluid using a temperature sensor;

sending the measured temperature to a temperature controller; and

controlling an amount of heating applied to the fluid.

38. (New) A method according to Claim 31 wherein controlling amounts of chilled fluid and amounts of heated fluid being delivered to the heat load comprises:

sending a temperature of the combined chilled and heated fluid being supplied to the heat load to a controller; and

controlling a position of a flow control valve with the controller, the valve controlling an amount of heated fluid and an amount of chilled fluid applied to the heat load.

39. (New) An apparatus for controlling temperature of a fluid at a heat load, said method comprising:

a first fluid reservoir configured to maintain a fluid at a temperature below a fluid temperature desired at the heat load;

a first temperature controller for said first fluid reservoir;

a first temperature sensor configured to transmit a temperature of the fluid in said first fluid reservoir to said controller, said controller configured to adjust a temperature of the fluid in said first fluid reservoir;

a fluid heating portion configured to provide fluid at a temperature above a fluid temperature desired at the heat load;

a second temperature controller for said fluid heating portion;

a second temperature sensor configured to transmit a temperature of the fluid in said fluid heating portion to said controller, said controller configured to adjust a temperature of the fluid in said fluid heating portion;

at least one valve configured to let an amount of the chilled fluid and an amount of the heated fluid flow through the heat load;

a third temperature controller for said heat load; and

a third temperature sensor configured to transmit a temperature of the fluid at said heat load to said third controller, said controller configured to adjust a setting of said valve to control a mixing ratio of the chilled fluid and the heated fluid to the heat load, the fluid circulating through the heat load at flow rates exceeding five gallons per minute, the temperature of the fluid at the heat load being controlled to within +/- 0.1 degree F of a desired temperature at the heat load.

40. (New) An apparatus according to Claim 39 wherein said heating portion comprises at least one of a hot reservoir, a heat exchanger, and a heating loop.

41. (New) An apparatus according to Claim 39 wherein said heating portion comprises a hot reservoir and said valve comprises a three way, pressure compensated flow control valve configured to regulate flow rate independent of pressure changes.

42. (New) An apparatus according to Claim 39 wherein said first fluid reservoir comprises a circulation pump to reduce thermal stratification of the fluid within said reservoir.

43. (New) An apparatus according to Claim 39 wherein said controllers are configured with set points, the set point being a desired temperature at a particular location, said controllers configured to return a difference between a measured temperature received from a sensor and a set point temperature for each said controller, said controllers configured to control a position of a flow control valve.

Remarks

In response to the Office Action dated August 13, 2002, Applicants elect, with traverse, species 4 shown in Figure 4 for examination. Applicants respectfully submit that Claims 23-30 are readable upon species 4.